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Art Nelson

TABLE 14.—Timing statistics for 1987 tag releases of chum salmon in the area of the South Peninsula June fishery. Also shown are *t*-test statistical significance for simple comparison of mean date of release for recoveries in respective fishery units with (1) the mean date of release for all Unimak and Shumagin releases combined and (2) the midpoint of the combined Unimak and Shumagin District catches.

Fishery Unit of Recovery	Mean Date of Release for Recoveries	Std. Dev. (d)	Number of Recoveries	Significance Testing	
				Mean Date of Release for All Releases	With Midpoint of Catches
Kotzebue	July 1.5	0.71	2	NS	*
Norton Sound	June 21.1	4.8	10	NS	NS
Yukon Summer	June 17.6	5.5	19	NS	NS
Yukon Fall	June 22.8	5.8	6	NS	NS
Kuskokwim River	June 21.2	4.9	139	*	*
Kuskokwim Bay	June 21.7	5	7	NS	NS
Bristol Bay	June 23.9	4.3	316	NS	*
North Peninsula	June 23.6	5.7	57	NS	*
Japan	June 22.8	6.9	32	NS	*
Combined District Releases	June 23.5				
Combined District Catches	June 19.0				
Unimak Releases	June 22.8				
Unimak Catches	June 19.1				
Shumagin Releases	June 24.4				
Shumagin Catches	June 17.8				

\* Significant at  $\alpha \leq 0.05$

### Run Timing

Detailed timing statistics by species, fishery unit, and district within fishery unit for both Shumagin and Unimak releases are presented in Eggers et al. 1989. Included are mean and range for date of release, mean

and range for date of recovery, mean and range for travel times (days) from the release to recovery for both sockeye and chum salmon recoveries. Recoveries for which the exact date and location of recovery could not be verified were excluded unless otherwise noted.

TABLE 15.—Timing statistics for 1987 tag releases of sockeye salmon in the area of the South Peninsula June fishery. Also shown are *t*-test results for statistical significance in comparison of mean date of release for recoveries in respective fishery units with (1) the mean date of release for all Unimak and Shumagin releases combined and (2) the midpoint of the combined Unimak and Shumagin District catches.

Fishery Unit	Mean Date of Release for Recoveries	Std. Dev. (d)	Number of Recoveries	Significance Testing	
				Mean Date of Release for All Releases	With Midpoint of Catches
Kuskokwim River	June 15.5	5	4	NS	NS
Bristol Bay	June 24.4	4.65	1,078	*	*
North Peninsula	June 21.0	5.7	120	*	*
Chignik	June 19.0	5.9	73	*	NS
Kodiak	June 16.3	7.49	21	*	NS
Cook Inlet	June 22.25	4.65	4	NS	NS
Combined District Releases	June 22.6				
Combined District Catches	June 19.5				
Unimak Releases	June 23.5				
Unimak Catches	June 19.8				
Shumagin Releases	June 19.4				
Shumagin Catches	June 18.0				

\* Significant at  $\alpha \leq 0.05$

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# Stock Composition of Sockeye and Chum Salmon Catches in Southern Alaska Peninsula Fisheries in June

by

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